

Table WEB-1: DnHP, Developmental Toxicity, Mice

Species, Strain, and Source	Experimental Regimen	Number	Dose*	Maternal effects	Offspring Effects
CD-1 Mice Hardin et al. 1987 (1)	Prenatal developmental toxicity screening study. Pregnant dams were gavaged with DnHP (undiluted) from gd 6–13. Dams were observed twice daily and weighed on gd 6, gd 17, and pnd 3. Pups were delivered and nursed until pnd 3. Dams were killed on pnd 3 and the uteri of females that did not deliver were stained with ammonium sulfide to examine implantation sites. Developmental parameters evaluated in pups included body weight and survival.	50 48	0 9,900	 Could not be evaluated.	 No live pups at birth.

*Doses measured in mg/kg bw/day.

Table WEB-2: DnHP, Reproductive Toxicity, Mice

Species, Strain, and Source	Experimental Regimen	Animal Number	Dose*	Effects
CD-1 Mice Lamb 1987; Reel et al. 1985 (2, 3)	<p>Fertility assessment through continuous breeding study. DnHP administered in feed at 0, 0.3, 0.6, or 1.2%. Breeding pairs housed together for 98 days; body weight was measured on 6 days, clinical signs and food intake were recorded; litters were counted, sexed, weighed, and removed following birth.</p> <p>In a crossover breeding study, high-dose males and females were mated with control mice. Breeding pairs were housed together for 7 days or until a copulatory plug was observed. Necropsy and a histopathological examination were conducted</p>	<p>37</p> <p>17</p> <p>19</p> <p>16</p>	<p>0</p> <p>380</p> <p>800</p> <p>1,670</p>	<p>37/37 pairs fertile.</p> <p>14/17 pairs fertile. ↓ Litters/pair (n=3.43 vs. 4.89 in control). ↓ Live pups/litter (n=3.43 vs. 12.29 in control). ↑ Pup mortality.</p> <p>1/19 pairs fertile.</p> <p>0/16 pairs fertile.</p> <p>Cross-over mating trial ↓ Mating rate in males. Females normal. ↓ Fertility in exposed males x control females, 6 vs. 85%. ↓ Fertility in exposed females x control males, 0 pairs fertile. ↓ Sperm count and motility in F₀ males. ↓ Testis, epididymis, and seminal vesicle to body weight ratios. ↑ Liver to body weight ratio in F₀ males and females. ↓ Body weight in F₀ males and females.</p>

*Doses (in mg/kg bw/day) estimated by Chapin and Sloane (4).
N = Number

↑=Statistically Significant Increase

↓=Statistically Significant Decrease

REFERENCES

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2. Lamb JC, IV. Reproductive effects of four phthalic acid esters in the mouse. *Toxicol Appl Pharmacol* 88:255-269(1987).
3. Reel JR, Lawton AD, Myers CB. Di-N-Hexyl Phthalate: Reproduction and fertility assessment in CD-1 mice when administered in the feed. NTP-85-187. NTIS#PB85-249332: National Toxicology Program, National Institute of Environmental Health Sciences, 1985.
4. Chapin RE, Sloane RA. Reproductive assessment by continuous breeding: Evolving study design and summaries of ninety studies. *Environmental Health Perspectives* 105:199(1997).